"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KALMENS, R.I.

RAPOPORT, A.L., professor, redaktor; SOKOLOVSKIY, A.L., professor, redaktor; KALMENS, R.I., redaktor; KISINA, Ye.I., tekhnicheskiy redaktor

[Technology of confection production] Tekhnologiia konditerskogo proizvodstva. Moskva, Pishchepromizdat. Pt.2. 1952. 417 p.
(Confectionery) (MLRA 10:1)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

ZINOV'YEV, A.A., professor, doktor tekhnicheskikh nauk; KALMENS, R.I., redaktor; KISINA, Ye.I., tekhnicheskiy redaktor.

[Chemistry of fats] Khimiia zhirov. Moskva, Pishchepromizdat, 1952. 550 p. (MLRA 8:2)

(Oils and fats)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

VIDANOV, K.Kh.; KOTEL'NIKOV, S.A.; KALMENS, R.I., redaktor; DUBOVKINA, N.A., tekhnicheskiy redaktor

[Bakery goods production] Proizvodstvo muchnykh konditerskikh izdelii. Moskva, Pishchepromizdat, 1953. 207 p. (MLRA 7:9)
(Baking)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

MOGILYANSKIY, N.K.; KALMENS, R.I., redaktor; DUBOVKINA, N.A., tekhnicheskiy redaktor.

[Production of cider] Proizvodstvo sidra. Moskva, Pishchepromizdat, 1954. 61 p. (MLRA 7:11)
(Cider)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KALNENS, R.I.

DEVYATNIN, V.A., kandidat sel'sko-khozyaystvennykh nauk, redaktor; KALNENS, R.I., redaktor; GOTLIB, E.M., tekhnicheskiy redaktor.

[Methods of determining vitamins; chemical and biological] Metody opredeleniia vitaminov (khimicheskie i biologicheskie). Pod red. V.A. Deviatnina. [Moskva], Pishchepromizdat, 1954. 135 p. (MIRA 8:4)

1. Zaveduyushchiy khimiko-analiticheskoy laboratoriyey Vsesoyuznogo nauchno-issledovatel'skogo vitaminnogo instituta (for Devyatnin).
(Vitamins)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KONOVTSEV, S.V.; KALMENS, R.I., redaktor; DUBOVKINA, N.A., tekhnicheskiy redaktor

[The equipment of bakeries] Oborudovanie khlebopekarnykh predpriiatii. Moskva, Pishchepromizdat, 1954. 275 p. [Microfilm] (MLRA 8:3)
(Bakers and bakeries)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

GOLDOVSKIY, Aleksandr Mikhaylovich, prof.; KALMENS, R.I., red.; CHEBYSHEVA, Ye.A., tekhn. red.

[Theoretical principles of vegetable oil production] Teoreticheskie osnovy proizvodstva rastitel'nykh masel. Moskva, Pishchepromizdat, 1958. 445 p. (MIRA 11:12)

(Oils and fats)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KAL'MENS, R.I.

SILIN, Pavel Mikhaylovich; KAL'MENS, R.I., red.; CHEBYSHEVA, Ye.A., tekhn.red.

[Beet sugar technology and white sugar refining] Tekhnologiia sveklosakharnogo i rafinadnogo proizvodstva. Moskva, Pishchepromizdat, 1958. 600 p. (MIRA 11:6)
(Sugar manufacture)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

SOKOL'NIKOV, N.P., inzh.; KONDRATSKIY, A.P., prof. [deceased]; VOYTKEVICH, S.A., kand.khim.nauk, retsenzent; SKVORTSOVA, N.I., kand.khim. nauk, spetsred.; KALMENS, R.I., red.; DOBUZHINSKAYA, L.V., tekhn.red.

[Production of essential oils] Tekhnologiia efiromaslichnogo proizvodstva. Moskva, Pishchepromizdat, 1958. 201 p. (MIRA 12:6)
(Essences and essential oils)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

MASLIKOV, Vladimir Arkhipovich; GAVRILENKO, I.V., kand.tekhn.nauk, retsenzent; KALMENS, R.I., red.; KISINA, Ye.I., tekhn.red.

[Examples of calculations of equipment used in the production of vegetable oils] Primery raschetov oborudovaniia proizvodstva rastitel'nykh masel. Moskva, Pishchepromizdat, 1959. 225 p. (MIRA 13:7)

(Oil industries--Equipment and supplies)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

GAVRILENKO, Ivan Vasil'yevich, kand.tekhn.nauk, laureat Stalinskoy premii; KAIMENS, R.I., red.; GOTLIB, E.M., tekhn.red.

[Equipment for the production of vegetable oils] Oborudovanie dlia proizvodstva rastitel'nykh masel. Moskva, Pishchepromizdat, 1959. 409 p. (MIRA 13:1)
(Oil industries--Equipment and supplies)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

FRIDMAN, Rudol'f Arkad'yevich; DAYEV, N.A., retsenzent; KIPORENKO, S.F., retsenzent; KALENOVA, K.I., spetsred.; KALNEZS, R.I., red.; SOKOLOVA, I.A., tekhn.red.

[Toiletries; manufacture, use, and analysis] Kosmetika; proizvodstvo, primenenie, analiz. Izd.2., perer. i dop. Moskva, Pishchepromizdat, 1959. 412 p. (MIRA 12:4)
(Toilet preparations)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KALMENS, R. I.

BEREZOVSKIY, Vladimir Mironovich; NAZAROV, I.N., akademik, retsenzent; PREOBRAZHENSKIY, N.A., prof., doktor khim.nauk, zasluzhennyy deyatel' nauki, spetsred.; KALMENS, R.I., red.; BELIKOVA, L.S., red.

[Chemistry of vitamins] Khimiia vitaminov. Moskva, Pishchepromizdat, 1959. 599 p. (MIRA 13:1)
(VITAMINS)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

AVDEYEVA, Aleksandra Vasil'yevna, prof.; OSTROVSKIY, A.I., prof., retsenzent; KRASIL'SHCHIKOV, A.I., doktor khim. nauk, retsenzent; KALMENS, R.I., red.; KISINA, Ye.I., tekhn. red.

[Metal corrosion in the food industry]Korroziia metallov v pishchevoi promyshlennosti. Moskva, Pishchepromizdat, 1962. 209 p. (MIRA 15:12)

(Food industry--Equipment and supplies)
(Corrosion and anticorrosives)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

DENSHCHIKOV, Mikhail Tikhonovich; KALMENS, R.I., red.; ZARSHCHIKOVA, L.N., tekhn. red.

[Use of industrial waste waters for the production of food yeasts] Ispol'zovanie promyshlennykh stochnykh vod dlia proizvodstva kormovykh drozhzhei. Moskva, Pishchepromizdat, 1963. 22 p. (MIRA 16:12)
(Industrial wastes) (Yeast)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

DENSHCHIKOV, Mikhail Tikhonovich, kand. tekhn.nauk; KALMENS, R.I., red.; ZARSHCHIKOVA, L.N., tekhn. red.

[Present-day state of the brewing industry in Czechoslovakia] Sovremennoe sostoianie pivovarennoi promyshlennosti Chekhoslovakii. Moskva, Pishchepromizdat, 1963. 139 p. (MIRA 16:11)

(Czechoslovakia—Brewing industry)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

TYUTYUNNIKOV, Boris Vasil'yevich, doktor tekhn. nauk, prof.; NAUMENKO, Petr Vasil'yevich; TOVBIN, Isaak Moiseyevich; FANIYEV, Garegin Georgiyevich; KALMENS, R.I., red.; KISINA, Ye.I., tekhn. red.

[Technology of the processing of oils and fats] Tekhnologiia pererabotki zhirov. [By] B.N.Tiutiunnikov i dr. 3., perer. i dop. izd. Moskva, Pishchepromizdat, 1963. 594 p. (MIRA 17:2)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

AZRILEVICH, Moisey Yakovlevich, inzh.; KRASNYUK, G.M., inzh., retsenzent; ZHUKOV, G.I., inzh., retsenzent; KALMENS, R.I., red.

[Equipment of sugar-beet plants] Oborudovanie sveklosakharnykh zavodov. Moskva, Pishchevaia promyshl., 1964. 282 p. (MIRA 17:12)

1. Gosudarstvennyy Komitet po mashinostroyeniyu pri Gosplane SSSR (for Krasnyuk). 2. Krasnodarskiy tekhnikum sakharnoy promyshlennosti (for Zhukov).

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KAL'MENS, V.Ya., inzh.

Dynamic stresses in moving blades caused by periodic and momentary loads and concentrated impulses. [Trudy] LMZ no.6:242-248 '60. (MIRA 13:12)

(Blades—Vibration)

Trudy Leningrad Metallicheskiy zavodi. Otdel tekhnicheskoy informatsii

Issledovaniya elementov parovykh i gazovykh turbin i osevykh kompressorov, Moscow, Mashgiz, 1960 488p.

The collection contains 43 reports which present the methods and results of investigations of the working process and the statics and dynamics of the operation of turbine and axial-flow compressor components. Also described are test setups, devices, and apparatus.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KAL'MENS, V.Ya., inzh.; KREVAN, L.O., inzh.

Critical speeds of rotors of high-power turboagregates. [Trudy] LMZ no.6:249-264 '60. (MIRA 13:12)

(Impellers)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

S/114/63/000/003/001/005
E191/E435

AUTHOR: Kal'mens, V.Ya., Engineer

TITLE: Simulating method for vibration phenomena in the oil film during rotor operation

PERIODICAL: Energomashinostroyeniye, no.3, 1963, 9-12

TEXT: Self-excited vibrations arising due to forces in the bearing oil film of high speed rotors are not easily predicted by analysis owing to the indefinite limits of the load carrying oil layer, the importance of oil inertia forces and inaccuracies in predicting the axial outflow. On the assumption that the oil film is thin, its flow laminar and the pressure across it uniform, the conditions for simulation by scale model experiments are sought by examining the differential equations. The conditions of similarity between the full-scale and the model rotors include identical distributions of the rotor mass, its moment of inertia and the moment of inertia of the shaft cross-section in bending. Two ratios, determining the dynamic and elastic similarity of the rotors respectively, must be identical so that the fundamental critical speed is the same. Nine further parameters must be identical to ensure complete similarity. Among the consequences,

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

S/114/63/000/003/001/005
E191/E435

Simulating method ...

when the full scale and model rotor bearings are lubricated with the same oil, are the requirements of an identical rotational speed and an identical absolute value of the bearing clearances. These conditions are easily fulfilled in a reduced scale laboratory model. It is shown that a slight increase in the temperature of the oil fed to the model bearings is advisable. In a numerical example, illustrating the analysis of this paper, a model rotor has the following values (full scale values in brackets). Journal diameter: 140 mm (360), rotor length: 1610 mm (5430), shaft diameter at mid-span: 95 mm (430), rotor weight: 419 kg (18313), moment of inertia of the largest disc: 18 kg cm sec^2 (3550). In a discussion of the analysis, it is explained that the absence of full geometric similarity leading to easier laboratory simulation is justified by the particular nature of the problem with emphasis on the small thickness of the oil film. There are 3 figures and 1 table.

Card 2/2

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

ACCESSION NR: AP4029216 S/0114/64/000/004/0028/0030

AUTHOR: Kal'mens, V. Ya. (Engineer)

TITLE: Effect of web and hub placement on the bending and critical speed of a turbine rotor

SOURCE: Energomashinostroyeniye, no. 4, 1964, 28-30

TOPIC TAGS: turbine, turbine shaft, turbine shaft stiffness, turbine rotor, turbine rotor critical speed, turbine rotor bending

ABSTRACT: A shaft model (1/20 natural size) with 7-13 hubs was bent and the resulting deformation was compared with that of a shaft without the hubs. The models had different B/d (0.28, 0.4, 0.6, 0.8, 1.0), D/d (1.2-2.0), and Δ/d (0.001 and 0.0003), where B is the hub width, d is the shaft diameter, D is the hub diameter, Δ is the tightness (negative allowance). By estimating the moments of inertia with and without the hub and taking their ratio, the shaft

Card 1/2

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

ACCESSION NR: AP4029216

stiffening was determined. It was found that: (1) Rotor disks have a very substantial and speed-depending effect on the shaft bending and critical speed; (2) Since the effect of the web is secondary, calculations may be based on the results of tests with simple hubs; (3) The estimation of rotor-vibration frequency at a specified speed should allow for the loss of hub-on-the-shaft tightness due to centrifugal force. Orig. art. has: 5 figures and 6 formulas.

ASSOCIATION: Leningradskiy metallicheskiy zavod (Leningrad Metal Plant)

SUBMITTED: 00 DATE ACQ: 01May64 ENCL: 00

SUB CODE: PR NO REF SOV: 004 OTHER: 001

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KAIMET, R., kand. sel'skokhoz. nauk

Trace element fertilizers in the fields of Estonia. Zemledelie 26 no.9:72-75 S '64. (MIRA 17:11)

1. Estonskiy nauchno-issledovatel'skiy institut zemledeliya i melioratsii.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KAL'MET'YEV, Kh. S. ; TUROVTSEV, M. M.

Acorns

Planting germinant acorns. Les i step' 5, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

GRITSEV, N.D.; KAL'MET'YEVA, R.A.

Paraffin tar deposition in petroleum pipeline systems. Neft. khoz. 43 no.9:51-54 S '65.

(MIRA 18:10)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KNIZHNIK, G.G.; SHENKAR, A.S.; KAL'MEYER, A.F.

Design of frames, statically indeterminate relative to the total lateral forces, by means of the EMSS-7 model. Vych. i org. tekh. v stroi. i proekt. no.3:51-56 '64. (MIRA 18:10)

1. Kiyevskoye otdeleniye Vsesoyuznogo gosudarstvennogo proyektnogo instituta stroitel'stva elektrostantsiy.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KAL'MIUS, A.A.

Centrifugal machine for casting bronze-bushing blanks. Sbor. rats. predl. vnedr. v proizv. no.2:56 '61. (MIRA 14:7)

1. Novo-Moskovskiy metallurgicheskiy zavod.
(Centrifugal casting)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

ZAGZHDA, V.P.; TIKHONOVA, L.A.; SOKOLOV, V.I.; MARANTS, A.G.; RYBNIKOV, V.A.; KAZAKEVICH, S.S.; SARMIN, A.P.; GAVRILOV, A.I.; NOVIKOV, A.N.; NECHEPORENKO, M.A.; [redacted]; FEDOROV, O.A., redaktor; FEL'DGANDLER, G.G., redaktor; ROZENTSVEYG, Ya.D., redaktor izdatel'stva; MIKHAYLOVA, V.V., tekhnicheskiy redaktor

[Handbook on refractory elements and materials] Spravochnik na ogneupornye izdeliia, materialy i syr'e. Sostavlen po gosudarstvennym standartam i tekhnicheskim usloviiam. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 195 p. (MLRA 10:2)

1. Russia (1923- U.S.S.R.) Ministerstvo chernoy metallurgii.
2. Leningradskiy institut ogneuporov. (for Zagzhda, Tikhonova, Sokolov, Marants, Rybnikov, Kazakevich, Sarmin, Gavrilov, Novikov, Necheporenko, Kal'mova.

(Refractory materials)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

POPOV, V.M.; SHABALIN, V.V.; KALMURZAYEV, K.Ye.

First All-Union Conference on Deep-Sea Deposits. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 4 no.3:141-143 '62. (MIRA 15:11)
(Deep-sea deposits)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KALMURZAYEV, K.Ye.

Concretions in the Cambrian-Ordovician sediments of the Sarydzhaz region. Zap. Kir. otd. Vses. min. ob-va no.3:67-80 '62. (MIRA 17:11)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

ADYCHEV, M.M.; RAHMUNDAYEV, K.Ye.

Sedimentary-diagenetic origin of uranium mineralization in coal-silica-shale formation. Geol.rud.mestorozh. 7 no.4:16-25 Jl-Ag '65. (MIRA 18:8)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

ADYSHEV, M.M.; SHABALIN, V.V.; KALMURZAYEV, K.Ye.

Dispersed elements in Cambrian sediments of the Dzhetym-Tau (central Tien Shan). Dokl. AN SSSR 151 no.2:422-425 Jl '63. (MIRA 16:7)

1. Institut geologii AN Kirgizskoy SSR. Predstavleno akademikom N.M.Strakhovym.
(Dzhetym-Tau--Trace elements)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KAL'MUSHEVSKIY, I.I.

Linear equivalence of Volterra operators. Usp. mat. nauk 20 no.6:93-97 N-D '65. (MIRA 18:12)

1. Submitted June 30, 1964.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KALMUTCHI, G.

Country : Rumania

Category : CULTIVATED PLANTS COMMERCIAL., Oleiferous. Sugar-Bearing

Abs. Jour. : RZh Khim No.21,1958,No 69986

Author : Girle,T.B.; Balif,C.; Ionar St.,I.; Kalmutchi,G.

Institut. : Timisoara Inst. of Agronomy

Title : The Effect of Certain Growth Stimulants on Sugar Beet Productivity

Orig. Pub. : Anuarul. lucrar. stiint. Inst. agron. Timisoara, Bucuresti, 1957, 133-140

Abstract : Sugar beet seeds were treated for 15 minutes in 2,4-D solutions (in concentrations of 5 and 10 mg/l in pure form and with the addition of 100 mg per liter of uranyl acetate), α-naphthylacetic acid (0.5 and 1 mg/l) and β-naphthylacetic acid (50 and 100 mg/l). The stimulants were first dissolved in small amounts of alcohol and brought up to the necessary concentrations with water. In two months after planting the beets were side-dressed with P_2

*Fohn,I.

Card: 1/3

_114

Abstract : in doses of 50 and 100 kg/ha. Seed treatment with 2,4-D yielded a reduced root harvest which was especially noticeable with the addition of uranyl acetate. Some increase in root yield was gotten with α-naphthylacetic acid and β-naphthylacetic acid in comparison with the control. Treatment with 2,4-D (5 mg/l) increased the saccharinity by 0.7%, and in concentration of 10/mg/l by 0.2%. The addition of uranyl acetate cut the action of pure 2,4-D nearly down to the level of the control.

Card: 2/3

Abstract : Saccharinity in the variants treated with α-naphthylacetic acid and β-naphthylacetic acid was 0.2-0.9% higher than the control.--V.P. Zheimovich

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

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RUMANIA/Farm Animals. Poultry.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 78814.

Author : ~~Kalmutski, Gr.~~-Boscoanca, D.
Inst :
Title : Determination of the Concentration of Carotene in the Yolk as a Means of Evaluating the Incubation Qualities of Hens' Eggs.

Orig Pub: Anuarul lucrar, stiint. Inst. agron. Timisoara, Bucuresti, 1957, 259-263.

Abstract: The authors propose, along with the evaluation of the incubation qualities of eggs according to size, external appearance and, during preincubation, candling, to determine the concentration of carotene in the egg yolk. Determination of carotene was carried out by Rachevskiy's method, which is

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Card : 2/2

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

RUMANIA/Farm Animals. Domesticated Fowl.

Abs Jour: Ref Zhur-Biol., No 20, 1958, 92641.

Author : Girda, T.D., Kahautchi, G., Descanca, D.
Inst : Timisoara Scientific Institute of Agronomy.
Title : Determination of Changes in the Concentration of Carbon Dioxide in Large Incubators to Secure the Optimum Incubation Conditions.

Orig Pub: Anuarul lucrar. stiint. Inst. agron. Timisoara, Bucuresti, 1957, 265-271.

Abstract: To check on the adequacy of gaseous exchange in the large B-60 type incubators (containing 64,000 egg spaces) the authors investigated the air in the incubators on various days of incubation and the eggs for variations in their carbon dioxide content. The gas

Card : 1/3

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KAIMUTCHI, G.; NICULESCU, C.

Solid catalysts used in the manufacturing of monomers for synthetic rubber. Rev chimie Min petr 13 no.6:345-350 Je '62.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

L 43092-66 EWP(k)/EWT(m)/T/EWP(v)/[illegible]

ACC NR: AR6014385 (A,N) SOURCE CODE: UR/0137/65/000/011/1058/1058

AUTHORS: Babiy, V. S.; Kalmutskiy, V. S.

TITLE: Effect of mechanical deformation on the electrode potential of steel

SOURCE: Ref. zh. Metallurgiya, Abs. 11I406

REF SOURCE: Sb. Materialy dokl. 1-y Nauchno-tekhn. konferentsii Kishinevsk. politekhn. in-ta. Kishinev, 1965, 85-86

TOPIC TAGS: material deformation, alloy steel, electrode potential / St. 3 alloy steel

ABSTRACT: Structural changes of the surface resulting from mechanical treatment are reflected in the magnitude of the electrode potential. The electrode potentials of a surface under stress are more negative than stationary potentials of a steel annealed in vacuum. Thus, for steel St. 3 φ_{stat} in chloride electrolyte is -475 to -470 mv (normal calomel electrode 5 (NKE)) and -436 to -445 mv (NKE). According to x-ray structural data, the surface stresses decrease during anodic dissolution. This is reflected in the magnitude of the stationary potentials, determined after anodic etching. After anodic dissolution φ_{stat} for steels

Card 1/2 UDC: 669.14.018.26:539.37

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L 43092-66

ACC NR: AR6014385

annealed in vacuum in 48% H_3PO_4 solution is approximately -490 to -520 mv (NKE) and for the deformed steel -450 to -470 mv (NKE) respectively. Comparison of anodic polarization data indicates that the magnitude of anodic polarization of deformed steels is larger than that of annealed steels. V. Olenicheva [Translation of abstract]

SUB CODE: 11

Card 2/2

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

L 43093-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD/WB

ACC NR: AR6014384 (A,N) SOURCE CODE: UR/0137/66/000/011/I057/I057

AUTHORS: Petrov, Yu. N.; Mamontov, Ye. A.; Parsadanyan, A. S.; Vyrlan, A. I.; Stanko, A. A.; Kalmutskiy, V. S.

TITLE: Influence of thermal treatment on the electrode potential of steel

SOURCE: Ref. zh. Metallurgiya, Abs. 11I396

REF SOURCE: Sb. Materialy dokl. 1-y Nauchno-tekhn. konferentsii Kishinevsk. politekhn. in-ta k Kishinev, 1965, 86-87

TOPIC TAGS: steel, carbon steel, electrode potential / St 45 steel

ABSTRACT: On the basis of comparison of the magnitude of stationary potentials of quenched and nonquenched specimens in a working electrolyte of iron-plating solution and 30% sulfuric acid solution, it is concluded that potentials of the quenched specimens are more positive than those of the nonquenched specimens. The behavior of specimens (St 45 quenched) during anodic treatment in 30% sulfuric acid solution shows that the more intensive passivation occurs for quenched specimens. The change of the stationary potentials of quenched carbon steel towards electropositive values is explained by the presence of residual

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L 43093-66

ACC NR: AR6014384

austenite.. Experience in the application of the iron-plating process shows that obtaining a strong durable surface on quenched parts is associated with greater difficulties as compared with nonquenched parts. I. Tulupova [Translation of abstract]

SUB CODE: 11

Card 2/2 mlcp

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KALMYCHIN, IVAN FEDOROVICH

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755.11
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KALMYCHIN, IVAN FEDOROVICH

UCHET, KAL'KULYATSIYA I OTCHETNOST' V KHOZYAYSTVENNYKH YEDINITSAKH ZHELEZNYKH DOROG (ACCOUNTING, CALCULATION AND RECORDING IN ECONOMIC UNITS OF RAILROADS, BY I. F. KALMYCHIN (1) B. P. TSAREV. MOSKVA, TRANSZHELDORIZDAT, 1956.

103 P. TABLES.

BIBLIOGRAPHY: P. 102

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GRIGOR'YEV, Aleksandr Nikolayevich; KALMYCHIN, Ivan Fedorovich; FLEYSHMAN, Feliks Moiseyevich; KOLTUNOVA, M.P., red.

[Analysis of the administrative operations of the line enterprises of a railroad] Analiz khoziaistvennoi deiatel'nosti lineinykh predpriiatii zheleznoi dorogi. Moskva, Transport, 1965. 294 p. (MIRA 18:4)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

S/229/62/000/004/003/003
I006/I206

AUTHORS: Isakov, V.V., Kalmychkov, A.P., and Prohorov, B.F., Engineers

TITLE: On the experience of design and fabrication of plastic wheel house for motor ship "Raketa"

PERIODICAL: Susdostroyeniye, no.4, 1962, 58-65

TEXT: Considering the relatively small dimensions of the wheel house its complicated form and the low strengths requirements, the polyether plastic material LU-132 was chosen for its construction, with ПН -1 (PN-1) glass fiber as filler. A detailed description of design requirements, wheel house design, preparation of jigs and fixtures, wheel house assembly and quality control. There are 9 figures and 2 tables.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

S/229/62/000/011/002/002
E191/E435

AUTHORS: Kalmychkov, A.P., Engineer, Prokhorov, B.F., Engineer

TITLE: Tests of a plastic deckhouse of the motor vessel "Raketa"

PERIODICAL: Sudostroyeniye, no.11, 1962, 58-63

TEXT: This is a continuation of a previous article (Sudostroyeniye, no.4, 1962) in which the design of a plastic deckhouse was discussed. The deckhouse material, a glass cloth reinforced plastic, was studied by tests of specimens and joints. The tensile and bending strengths were measured in specimens with the warp or weft of the cloth along the specimen, and in specimens with a crossed lay-up of the cloth layers. The thickness varied between about 1.8 and 3.3 mm. The tensile strength ranged from 1830 to 2850 kg/cm^2. Deflections were measured and Young's modulus values derived showing considerable variation (77000 to 137000 kg/cm^2) between different types and thicknesses of specimens, generally increasing with thickness and highest when the warp is along the specimen. Specimens cut from material prepared under shop conditions were compared with laboratory

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specimens showing a drop of Young's modulus in tension from 120000 to 84000 kg/cm^2, a rise in Poisson's ratio from 0.11 to 0.27, a drop of tensile strength from 2100 to 1000 kg/cm^2 and small variations in other properties. After 2 hours boiling and 30 minutes in cold water, the loss of strength was about 20%. The ratio by weight of the glass cloth to the resin was about 1:1. Static tests were carried out on complete elements of the deckhouse such as the roof panel and the aerial attachment fitting. The permissible stress was assumed to be 410 kg/cm^2. It is considered that in view of the unknown fatigue properties, an actual measured stress reaching 50% of the permissible static stress is excessive. Vibration tests by exciting vibrations with an impact and measuring the decay with mechanical vibrographs have shown the plastic deckhouse to have 4 times the damping of its metal predecessor. Tests have shown that, owing to its small thickness, the nature of the material has little effect on sound insulation. There are 3 figures and 6 tables.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KALMYCHKOV, A.P., inzh.; PROKHOROV, B.F., inzh.

Strength of glued joints. Sudostroenie 29 no.5:38-41 My '63. (MIRA 16:9)

(Gluing) (Hulls (Naval architecture))

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KALMYCHKOV, A.P., inzh.

Effect of the anisotropy of glass reinforced plastics on the supporting power of joints. Sudostroenie 30 no.8:31-32 Ag '64. (MIRA 18:7)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

L 22164-66 EWT(m)/EWP(v)/EWP(j)/T WW/RM

ACC NR: AP6007625 (N) SOURCE CODE: UR/0229/66/000/001/0076/0079

AUTHOR: Kalmychkov, A. P.

ORG: None

TITLE: Some characteristic properties of glued joints

SOURCE: Sudostroyeniye, no. 1, 1966, 76-79

TOPIC TAGS: shipbuilding engineering, glue

ABSTRACT: The use of glues for joint work in shipbuilding is discussed and some considerations on the strength of joints and various stresses are presented. The strength of a butt joint glued together by means of two cover straps is only about 50% greater than that of a joint with one strap. The variation of tangent shearing stresses in single and double strap connections of various lengths was illustrated. The strength diminishes with the increase of the thickness of a butt joint due to the action of tangent shearing and transversal rupturing stresses. The distribution of stresses was shown in a diagram. One of the weakest points of glued joints is the rupture or breaking away of glued parts because the stresses are not uniformly distributed, especially in shipbuilding practice. The stresses caused in a joint by transverse

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

L 22164-66

ACC NR: AP6007625

loads were considered and the effect of bending on the distribution of tangent shearing stress was graphically represented. Under bending conditions, the bearing capacity of the joint increases with the length of straps and the number of laps. The increase in strength does not exceed 25% if the second strap is added. A theoretical analysis for calculations of various stresses was also presented under assumptions that the deformation of glue and materials follows Hooke's law, that the thickness of the joint is uniform, the transversal stresses are uniformly distributed, the materials are isotropic and the straps are absolutely rigid with respect to bending. The effect of tensile forces on the joint was illustrated in a graph showing a distribution of transversal and tangent stresses in a butt joint between two straps. The effect of the strap length on the magnitude and distribution of transversal and tangent stresses was also investigated and the curves were plotted. Orig. art. has: 6 graphs.

SUB CODE: 13 / SUBM DATE: None / ORIG. REF: 004 / OTH REF: 000

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

SOV-91-58-4-10/29

AUTHOR: Kalmychkov, I.N., Engineer

TITLE: Gradual Evaporation in Multi-Drum Boilers Installed in Industrial Boiler Rooms (Stupenchatoye ispareniye v mnogobarabannykh kotlakh promyshlennykh kotel'nykh)

PERIODICAL: Energetik, 6, 1958, Nr 4, pp 11-12 (USSR)

ABSTRACT: In order to lower the drainage loss in "Babkok-Vil'koks" and "Shukhov" type sectional drum boilers, a 2-step, gradual evaporation system was carried out at the suggestion of the author. In "Babkok-Vil'koks" type sectional 2-drum boilers with front and rear screening of the furnace. One of the upper drums supplied a continuous water feeding and the other one a continuous drainage. The boilers had a steam pressure of 12 to 16 atm and an output of 9 to 12 tons per hour. By means of the gradual evaporation system, the salt content of the drainage was increased by 30 to 60% with normal steam quality. This resulted in the lowering of the drainage loss from 8-12 to 5-8%. In two unscreened 4-drum boilers of the "Shukhov" type, a 300 mm diameter mud collector was divided in two equal parts by a vertical partition. These boilers had a pressure of 8 atm and an output of 4 to 4.5 tons per

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SOV-91-58-4-10/29

Gradual Evaporation in Multi-Drum Boilers Installed in Industrial Boiler Rooms

hour. The salt content of the drainage was increased by 30 to 40% with normal steam quality. The drainage loss was reduced from 10-12 to 7-8%.
There are 2 diagrams.

1. Boilers--Operation 2. Feed water

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KALMYCHKOV, I.N.; KLOCHKOV, V.N.; KORSH, A.M.

Standardization of the hydraulic and chemical systems of the heat and electric power plants in sugar factories. Sakh.prom. 38 no.2: 32-34 F '64. (MIRA 17:3)

1. Khar'kovskoye neftepromyslovoye upravleniye "Ukrenergochermet".

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KRASNIKOVSKIY, G.V., prof., red.; MALYSHEV, A.S., red.; VOROB'YEV, B.M., dots., kand. tekhn. nauk, red.; KALMYK, M.K., gornyy inzh., red.; ZHUKOV, V.V., kand. tekhn. nauk, otv. red.; SMIRENSKIY, M.M., red. izd-va; SABITOV, A., tekhn. red.

[Problems in mining engineering; collected articles on the occasion of the 70th birthday of Professor S.D.Sonin] Voprosy gornogo dela; sbornik statei, posviashchennyi 70-letiiu so dnia rozhdeniia professora S.D.Sonina. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1962. 402 p. (MIRA 15:5)

1. Zaveduyushchiy kafedroy razrabotki plastovykh mestorozhdeniy Moskovskogo gornogo instituta (for Krasnikovskiy).
(Sonin, Semen Danilovich, 1891—) (Coal mines and mining)

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KALMYK, M.K., gornyy inzh.

Correlative analysis of basic factors affecting labor productivity. Ugol' 39 no.6:49-53 [redacted] (MIRA 17:7)

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PASHKOV, A.I.; KALMYK, V.A., red.; GERASIMOVA, Ye.S., tekhn. red.

[Economic law of the preferential growth of the production of the means of production] Ekonomicheskii zakon preimushchestvennogo rosta proizvodstva sredstv proizvodstva. Moskva, Gosplanizdat, 1958. 231p. (MIRA 11:11)

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YEVENKO, Ivan Andreyevich; KALMYK, V.A., red.; GERASIMOVA, Ye.S., tekhn.red.

[Present-stage problems of planning in the U.S.S.R.] Voprosy planirovaniia v SSSR na sovremennom etape. Moskva, Gosplanizdat, 1959. 207 p. (MIRA 12:12)
(Russia--Economic policy)

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STARODUBROVSKAYA, Vera Nikolayevna; YEVSTIGNEYEV, R.N., mladshiy nauchnyy sotrudnik; KALMYK, V.A., red.; GERASIMOVA, Ye.S., tekhn.red.

[Economic union of the working class and the peasantry in the European people's democracies] Ekonomicheskii soiuz rabochego klassa i krest'ianstva v evropeiskikh stranakh narodnoi demokratii. Moskva, Gosplanizdat, 1959. 250 p. (MIRA 12:6)

1. Sektor stran narodnoy demokratii Instituta ekonomiki AN SSSR (for Yevstigneyev).
(Europe, Eastern--Economic conditions)

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GREBTSOV, G.I., red.; KARPOV, P.P., red.; KALMYK, V.A., red.; KHOLIN, I.A., red.; PONOMAREVA, A.A., tekhn.red.

[Material balances in the national economic plan] Material'nye balansy v narodnokhoziaistvennom plane. Moskva, Gosplanizdat, 1960. 248 p. (MIRA 13:8)
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BUNICH, Pavel Grigor'yevich; KALMYK, V.A., red.; PONOMAREVA, A.A., tekhn.red.

[Capital assets of socialist industry] Osnovnye fondy sotsialisticheskoi promyshlennosti. Moskva, Gosplanizdat, 1960. 302 p. (MIRA 13:10)
(Russia--Industries)

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TURETSKIY, Sh.Ya., prof., red.; KALMYK, V.A., red.; GERASIMOVA, Ye.S., tekhn.red.

[Potentials for economizing in the national economy of U.S.S.R.] Rezervy ekonomii v narodnom khoziaistve SSSR. Moskva, Gosplanizdat, 1960. 307 p. (MIRA 13:9)
(Industrial management)

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MILYKH, Anatoliy Filippovich; NAZAROV, Fedor Nikolayevich; GERASIMUK, G.N., spets. red.; KALMYK, V.A., red.; GERASIMOVA, Ye.S., tekhn. red.

[Planning of design and research operations in construction] Planirovanie proektno-izyskatel'nykh rabot v stroitel'stve. Moskva, Gos. izd-vo planovo-ekon. lit-ry pri Gosekonomsovete SSSR, 1961. 72 p. (MIRA 14:7)

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BREYEV, Mikhail Viktorovich; KALMYK, V.A., red.; PONOMAREVA, A.A., tekhn.red.

[Law of planned and proportional development, and planning of the national economy] Zakon planomernogo proportsional'nogo razvitiia i planirovanie narodnogo khoziaistva. Moskva, Gosplanizdat, 1961. 82 p. (MIRA 14:6)
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CHERNYAVSKIY, Yakov Mikhaylovich; KALMYK, V.A., red.; PONOMAREVA, A.A., tekhn. red.

[Balance of the expenditure of working time in a plant; the work practice of enterprises of the Krasnoyarsk Economic Council] Balans zatrat rabochego vremeni na zavode; opyt raboty predpriiatii Krasnoiarskogo sovnarkhoza. Moskva, Gos. izd-vo planovo-ekon. lit-ry, 1961. 87 p. (MIRA 14:8)

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1. Moscow. Nauchno-issledovatel'skiy institut truda.
(Wage payment systems)

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NOTKIN, Aleksandr Il'ich; KAIMYK, V.A., red.; PONOMAREVA, A.A., tekhn. red.

[The pace and extent of socialist reproduction] Tempy i proportsii sotsialisticheskogo vosproizvodstva. Moskva, Izd-vo ekon. lit-ry, 1961. 213 p. (MIRA 14:11)

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KUROTCHENKO, Vasiliy Stepanovich; OSADA, Petr Akimovich; BEREZNOY, N.I., spets. red.; KALMYK, V.A., red.; LISOV, V.Ye., red.; KHOLIN, I.A., red.; GERASIMOVA, Ye.S., tekhn. red.

[Methodology for calculating the productive capacity of an industrial enterprise] Proizvodstvennaia moshchnost' promyshlennogo predpriiatiia; metodika rascheta. Moskva, Gos.izd-vo planovo-ekon. lit-ry, 1961. 279 p.

(Industrial capacity)

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[Utilizing capital assets in U.S.S.R. industries] Ispol'zovanie osnovnykh proizvodstvennykh fondov v promyshlennosti SSSR. Pod red. K.A.Petrosiana. Moskva, Izd-vo ekon. lit-ry, 1962. 210 p. (MIRA 15:3)

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ZABELIN, Nikolay Nikolayevich; KALMYK, V.A., red.; RYSKO, S.Ya., red.; TOKER, A.M., tekhn.red.

[Significance of labor reserves for the national economy] Narodnokhoziaistvennoe znachenie gosudarstvennykh trudovykh rezervov. Moskva, Vses.uchebno-pedagog.izd-vo Trudrezervizdat, 1959. 90 p. (MIRA 12:10)

(Labor supply)

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BORISOV, Pavel Aref'yevich, doktor ekonom.nauk; ZLOTNIKOVA, Lyudmila Grigor'yevna; KALMYK, V.A., red.; PONOMAREVA, A.A., tekhn.red.

[Labor productivity in the petroleum refining industry of the U.S.S.R.] Proizvoditel'nost' truda v neftepererabatyvaiushchei promyshlennosti SSSR. Moskva, Gosplanizdat, 1959. 118 p. (MIRA 12:7)

(Petroleum--Refining) (Labor productivity)

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SONIN, Mikhail Yakovlevich; KALMYK, V.A., red.; PONOMAREVA, A.M., tekhn.red.

[Reproduction of the labor force in the U.S.S.R. and balanced allocation of work] Vosproizvodstvo rabochei sily v SSSR i balans truda. Moskva, Gosplanizdat, 1959. 367 p. (MIRA 13:4)
(Labor and laboring classes)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KALMYKINA, Ye.M. (Alma-Ata); GORBUNOV, A.P. (Alma-Ata)

Destruction of a mountain lake; a mud torrent on the Issyk.
Priroda 53 no.6:81-84 '64. (MIRA 17:6)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KAVETSKIY, S.P.; KALMYNKINA, Ye.M.

Mudflow on the Issyk River on July 7, 1963. Vest. Mosk. un. Ser. 5: Geog. 19 no.2:77-80 Mr-Ap '64. (MIRA 17:4)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KALMYKOV, A. A. (Noril'sk)

"The incomplete utilisation of Noril'sk ores and changes in the flowsheet at the Noril'sk Beneficiation Works"

report presented at the 4th Scientific and Technical Session of the Mekhanobr Inst, Leningrad, 15-18 July 1958

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KALMYKOV, A.; PONOMAREV, Y.

Multipurpose attachments with interchangeable parts. IUn.tekh. 3 no.7:22-23 Jl '60. (MIRA 13:8)

1. Zamestitel' direktora Zavoda universal'no-sbornykh prisposobleniy i instrumentov (for Kalmykov). 2. Glavnyy konstruktor zavoda universal'no-sgornykh prisposobleniy i instrumentov (for Ponomarev).
(Machine tools--Attachments)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KALMYKOV, A., rabochiy-obrubshchik (Stalingrad); NURULLAYEV, S. (Baku); MAVLYUTOVA, R.; SHCHEBLANOV, N.; SAVENKOV, F.; [illegible], R.; CHICHIKINA, N.; LYAMTSEV, V.; ROMANENKO, N. (Krasnoyarskiy kray); SUKHORUKOV, Ya.; GAYDRIK, P. (g.Gor'kiy); KALMYKOV, A. (Kostroma).

Letters to the editors. Sov. profsoiuzy 17 no. 3:42-47 F '61. (MIRA 14:2)

1. Direktor sredney shkoly No. 17, Chelyabinsk (for Mavlyutova). 2. Predsedatel' Belgorodskogo obkoma profsoyuza rabochikh pishchevoy promyshlennosti (for Shcheblanov). 3. Predsedatel' prezidiuma postoyanno deystvuyushchego proizvodstvennogo soveshchaniya tsekha kholodnoy shtampovki zavoda "Rostsel'mash" (for Savenkov). 4. Sekretar' Oymyakonskogo raykoma profsoyuza rabochikh.
(Trade unions)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KALMYKOV A.A.

109-12-15/15

AUTHOR: Artemenkova, L.V.

TITLE: A Conference on Electron and Photo-electron Multipliers (Konferentsiya po elektronnym i fotoelektronnym umnozhitelyam)

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol.II, No.12, pp. 1552 - 1557 (USSR)

ABSTRACT: A conference took place in Moscow during February 28 and March 6, 1957 and was attended by scientists and engineers from Moscow, Leningrad, Kiev and other centres of the Soviet Union. Altogether, 28 papers were read and discussed. The papers were as follows:

1) B.M. Stepanov - "Some Problems of the Theory and Design of Electron Multipliers".
2) Ye.V. Yeliseyev, I.S. Ipatkin, A.A. Kalmykov, K.V. Mikerov and B.M. Stepanov gave some experimental data on electron multipliers operating at large currents and voltages.
3) P.V. Timofeyev and Ye.G. Kormakova - "Electron Multipliers of VEI (All-Union Electro-technical Institute)".
4) G.S. Vil'dgrube delivered a lecture on new types of electron multipliers employing alloy emitters.
5) N.S. Khlebnikov - "New Types of Photo-electron Multipliers".

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A Conference on Electron and Photo-electron Multipliers 109-12-15/15

6) A.G. Berkovskiy et alii communicated some results on the new types of industrial photo-electron multipliers.
7) L.I. Andreyeva et alii - "Electron Optics of Certain Special Electron Multipliers and its Characteristics".
8) L.V. Artemenkova et alii reported some results on the study of the dispersion of electrons in electron multipliers and its effect on their resolving power.
9) L.B. Artemenkova and B.M. Stepanov - "Resolving Power of Electron Multipliers and its Experimental Determination"
10) A.G. Berkovskiy and L.G. Leyteyzen gave some results on the photo-electron multipliers suitable for the discrimination of short-time intervals.
11) G.A. Vasil'yev reported on an investigation of the transient characteristics of photo-multipliers by means of a micro-oscillograph.
12) A.I. Veretennikov considered the problem of the measurement of the transient characteristics of photo-multiplers.
13) E.Ye. Berlovich gave some data on the transient characteristics of the photo-multipliers, type ФЭУ-19.
14) A.I. Belonosov determined the current time lag in the photo-multipliers, type ФЭУ-19 and ФЭУ-25.

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109-12-15/15

A Conference on Electron and Photo-electron Multipliers

15) Yu.A. Nemilov et alii also studied similar problems.
16) A.A. Osherovich investigated the basic parameters of the photo-multipliers, type ФЭУ .
17) A.Ye.Chidakov proposed a simple method for the measurement of the amplitude resolution of the multipliers.
18) A.Ye.Melamid - "Parameters of Photo-electron Multipliers and the Methods and the Equipment for their Measurement".
19) B.M. Stepanov gave some data on the characteristics of a multi-channel electron multiplier operating at high currents.
20) B.M. Glukhovskoy and Ye.I. Tarasov - "The Activation Technology of Alloy Emitters with Various Photo-cathodes".
21) A.N. Pisarevskiy studied the problem of the application of the Soviet-made photo-multipliers to scintillation spectroscopy.
22) I.F. Barchuk reported on the application of a spectrometric photo-multiplier to a scintillation γ-spectrometer.
23) A.I. Akishin lectured on the special electron multipliers which could be employed for the counting of ions.
24) Ye.L. Stolyarova reported on the experiments with a spectrometric photo-multiplier with an NaJ(Te) crystal.
25) A.A. Samokhvalov and I.G. Fakidov communicated some data

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109-12-15/15

A Conference on Electron and Photo-electron Multipliers

on a simple scintillation counter, its characteristics and its application in γ-type flaw detection.

26) O.D. Kovrygin and G.D. Latyshev reported on the application of the photo-electron-multipler, type ФЭУ-12, to the scintillation spectrometry and γ-type flaw detection.

27) N.G. Kokina gave some data on the application of electron multipliers to the monitoring of ultra-violet radiation.

28) N.K. Pereyaslova investigated the spectroscopic characteristics of the Soviet-made multipliers.

Very short summaries of the above papers are given.

SUBMITTED: July 3, 1957

AVAILABLE: Library of Congress

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

Kalmykov, A.A.

2(1,8) PHASE I BOOK EXPLOITATION SOV/3247

Moscow. Inzhenerno-fizicheskiy institut

Nekotoryye voprosy eksperimental'noy fiziki, vyp. 1 (Some Problems in Experimental Physics, Nr 1) Moscow, 1959. 85 p. 3,000 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya SSSR.

Ed.: V.P. Semenov, Candidate of Physical and Mathematical Sciences, Docent; Tech. Ed.: R.A. Negrimovskaya.

PURPOSE: This book is intended for physicists, chemists and other persons interested in general problems of nuclear physics and physical and chemical analyses.

COVERAGE: The collection contains 10 articles dealing with problems in elementary particle acceleration, radiography and crystal structure, physical and chemical analysis and instrumentation in these fields. References and mention of personalities accompany each article.

AVAILABLE: Library of Congress

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Card 3/3

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

21(0) SOV/56-36-4-55/70

AUTHORS: Fogel', Ya. M., Kozlov, V. F.
Kalmykov, A. A., Muratov, V. I.

TITLE: Direct Proof of the Applicability of the Adiabatic Criterion of Massey for Processes With Double Charge Exchange (Pryamoye dokazatel'stvo primenimosti adiabaticheskogo kriteriya Messi k protsessam dvoynoy perezaryadki)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 4, pp 1312-1314 (USSR)

ABSTRACT: As shown in a previous paper (Ref 1), the investigation of the rate dependence of the cross sections of the double re-charge of the ions H^+ and F^- leads to the result that the curves $\sigma_{1-1}(v)$ have two maxima for these ions. This fact is dealt with according to Massey's adiabatic criterion; thus, a maximum of such an inelastic process with a resonance defect ΔE must be observable if $a|\Delta E|/hv_{max} \approx 1$. The occurrence of two maxima in the curves $\sigma_{1-1}(v)$ for the processes $H^+ \rightarrow H^-$ and $F^- \rightarrow F^-$ can be explained either by the formation of slow excited doubly-charged ions (at $H^+ \rightarrow H^-$) or by the existence of impurity ions in excited metastable states in the primary

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

Direct Proof of the Applicability of the Adiabatic Criterion of Massey for Processes With Double Charge Exchange SOV/56-36-4-55/70

beam (at $F^+ \rightarrow F^-$). The two maxima indicate that besides the process $F^+ \rightarrow F^-$ also the process $F^{+*} \rightarrow F^-$ develops, viz. with a different resonance defect but with the same a-value. For the purpose of clarifying these conditions the authors investigated the processes $B^+ \rightarrow B^-$ in Xe, Kr, and H_2 and $O^+ \rightarrow O^-$ in Xe. In the former case the curve $\sigma_{1-1}(v)$ had 3 maxima, in the latter it had two. Results:

Process	Excitation energy [ev] (calculated)	ion term	term energy [ev]
$B^+ - Kr$	5.6 ± 1.6	$2s2p\ ^3P^0$	4.6
$B^+ - Kr$	11.7 ± 1.6	$2p^2\ ^3P$	12.1
$B^+ - Xe$	5.0 ± 0.9	$2s2p\ ^3P^0$	4.6
$B^+ - Xe$	11.3 ± 1.0	$2p^2\ ^3P$	12.1

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

Direct Proof of the Applicability of the Adiabatic Criterion of Massey for Processes With Double Charge Exchange SOV/56-36-4-55/70

Process	Excitation energy [ev] (calculated)	ion term	term energy [ev]
$B^+ - H_2$	4.4 ± 0.3	$2s2p\ ^3P^0$	4.6
$B^+ - H_2$	11.0 ± 2.0	$2p^2\ ^3P$	12.1
$O^+ - Xe$	24.2 ± 0.5	$2s2p^4\ ^2S$	24.4

The results obtained are discussed in detail. For $Li^+ \rightarrow Kr$, $Li^+ \rightarrow H_2$, and $Li^+ \rightarrow Ar$ the curves $\sigma_{1-1}(v)$ are given in form of diagrams. The additional maxima are where they must be according to Massey's criterion. Herefrom follows the identity of the a-values for processes of double re-charge of uncharged and charged ions. The results obtained by the investigation of the process $Li^+ \rightarrow Li^-$ provide direct proof of the applicability of Massey's criterion to such ions and also prove the correctness of the explanation of the nature of additional maxima of the curves $\sigma_{1-1}(v)$ in the processes investigated.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

Direct Proof of the Applicability of the Adiabatic Criterion of Massey for Processes With Double Charge Exchange SOV/56-36-4-55/70

There are 1 figure, 1 table, and 3 references, 2 of which are Soviet.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR (Physico-technical Institute of the Academy of Sciences, Ukrainskaya SSR). Khar'kovskiy gosudarstvennyy universitet (Khar'kov State University)

SUBMITTED: December 20, 1958

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

21(1)

AUTHORS: Fogel', Ya. M., Kozlov, V. F. Kalmykov, A. A.

SOV/56-36-5-4/76

TITLE: On the Problem of the Existence of the Negative Nitrogen Ion (K voprosu o sushchestvovanii otritsatel'nogo iona azota)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 4, pp 1354-1356 (USSR)

ABSTRACT: The authors of the present paper as well as Dukel'skiy and his collaborators have already investigated this problem and published a number of papers (Refs 1 - 5, 8 - 11) dealing with this subject. The results obtained by these investigations are first discussed. For the investigations, the results of which are discussed by the present paper, a mass-spectrometrical device, which is described by reference 13, was used. An N^+ beam of 34 kev coming from a high frequency ion source was led into the collision chamber, which was filled with krypton. A number of peaks was observed in the mass spectrum of the beam, of which the following were observed in the region of the peak corresponding to the mass 14: 12(C^+_{12}),

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

$13(C^+_{13} + C_{12}H^+)$, $15(N^+_{15} + N_{14}H^+)$, $16(O^+_{16} + C_{12}H^+_4 + N_{14}H^+_2)$, $17(O_{16}H^+ + N_{14}H^+_3)$ and $18(O_{16}H^+_2)$. The resolving power of the mass monochromator sufficed for the purpose of clearly separating the peak with the mass 14 from the neighboring peaks. Analysis of the beam was carried out by means of a magnetic analyzer. Measurement of the current of the negative ions was carried out by means of a tube electrometer having a sensitivity of 10^{-14} a/division mark. Already the first experiment carried out with an ion beam (m=14) and an amperage of 10^{-7} a showed that in the beam penetrating the collision chamber there were some N^--ions with m=14. By the mass-spectrometer method a cross section for the formation of an N^--ion during passage of an N^+ through a gas target of $3.2.10^{-22}$ cm^2 was determined. Consideration of σ^{14}_{1-1} finally resulted for the process $N^+ \rightarrow N^-$ in a cross

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On the Problem of the Existence of the Negative Nitrogen Ion

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section value of $1.9 \cdot 10^{-22}$ cm^2. The experiments carried out with H_2O^+ and the processes $CH_2^+ \rightarrow CH_2^-$ and $NH^+ \rightarrow NH^-$ at an energy of the positive ions of 34 kev in krypton are described. For the two last-mentioned processes cross sections of $5.3 \cdot 10^{-19}$ and $5.3 \cdot 10^{-18}$ cm^2 are obtained. The question was further investigated as to whether N_2^+-ions occurred, but none were found, i. e. the cross section of the process $N_2^+ \rightarrow N_2^-$ should be smaller than $1.5 \cdot 10^{-22}$ cm^2. There are 17 references, 10 of which are Soviet.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR (Physico-Technical Institute of the Academy of Sciences, Ukrainskaya SSR)

SUBMITTED: November 15, 1958

Card 3/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

SAFRONOV, B.G.; MITIN, R.V.; [illegible]; KONOVALOV, V.G.

[High-frequency oscillations of a plasma filament generated in a vacuum arc] Issledovanie vysokochastotnykh kolebanii plazmennogo shnura vakuumnoi dugi. Khar'kov, Fiziko-tekhn. in-t AN USSR, 1960. 215-226 p. (MIRA 17:1)

(Plasma (Ionized gases)) (Electric arc)

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

28779
S/057/61/031/010/012/015
B109/B102

10.2000
26.2311

AUTHORS: Safronov, B. G., Mitin, R. V., Kalmykov, A. A., and Konovalov, V. G.

TITLE: Investigation of high-frequency oscillations of the plasma column of a vacuum arc

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 10, 1961, 1248-1252

TEXT: A vacuum arc is used for the experimental investigation of natural oscillations of a plasma in the range of a few Mc/sec. Test arrangement (Fig. 1): Two graphite electrodes (10 cm long and 50 and 5 mm, respectively, in diameter) are placed in a water-cooled vacuum chamber (20 cm in diameter, 60 cm long) which is enclosed by a solenoid. Maximum magnetic field strength is 5000 oersteds. Electrode 4 is used for the priming (1500 v). Operating parameters: pressure about $5 \cdot 10^{-6}$ mm Hg; arc amperage 100 - 300 a; arc length L 2 - 50 cm; arc voltage V(volt) = 47 + 0.6 L(cm). The high-frequency oscillations are picked up by the magnetic probes 1, 2, 3 (Fig. 1) and are recorded with an OK-17M (OK-17M) oscilloscope. Measuring results: (A) The frequency increases linearly

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B109/B102

Investigation of...

with the magnetic field strength. (B) The frequency decreases with increasing arc length L, remains, however, practically constant above L≥30. (C) The rotatable probe 1 (Fig. 1) is used to investigate the spatial distribution of the high-frequency field near the arc. Results are shown in Fig. 5. (D) The strength of the h_φ - component of the alternating field was measured at different distances from the arc; it decreases like $1/r^{3/2}$, and is greater when the magnetic field strength is low. Conclusion: The frequencies of the oscillations investigated range within $\sqrt{\omega_{H_i}\omega_{H_e}}$, i, e., within hydromagnetic waves. The linear dependence of the frequency on the magnetic field strength also fully agrees with the well-known expression for hydromagnetic waves $v = H/\sqrt{4\pi\varrho}$. The authors thank K. D. Sinel'nikov for advice. There are 7 figures and 3 references: 1 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: I. S. Luce, Geneva conference, 1958; I. A. Sower, D. L. Scott, T. F. Stratton, Phys. of Fluids, 2, 47, 1959.

SUBMITTED: September 10, 1960

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Fig. 5. (a) Dependence of the signal strength on the angle of rotation of the probe in the plane parallel to the arc axis. The solid lines indicate a magnetic field direction anode-cathode, whereas the broken lines indicate the reverse direction. (б) The same in the plane perpendicular to the arc axis.

Fig. 1

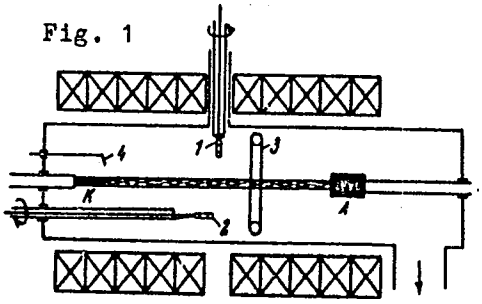
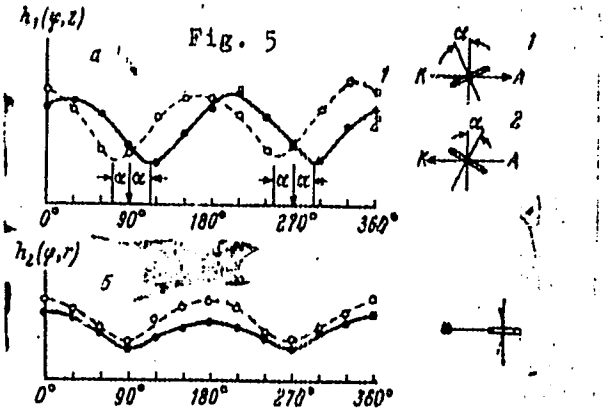


Fig. 5



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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

S/057/62/032/005/010/022
B163/B102

26.2212

AUTHORS: Kalmykov, A. A., Tereshin, V. I., Trubchaninov, S. A., and Safronov, B. G.

TITLE: Interaction of plasma clusters with a spatially periodic magnetic field

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 5, 1962, 579-583

TEXT: The parametric resonance of the ions in a plasma cluster moving along the axis of an axially symmetric magnetic field whose strength is a periodic function of the axial coordinate is studied experimentally. If the cyclotron frequency is nearly equal to the product of axial velocity and spatial periodicity, an increase of the velocity components perpendicular to the axis is expected, on the basis of theoretical considerations. The plasma cluster moves inside a copper cylinder of 8 cm diameter and 120 cm length. The magnetic field is formed by one external long coil, giving a homogeneous field H, and 17 equidistant internal coils of alternating polarity, producing a superimposed

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sinusoidal modulating field h sinvz. H is varied from 0 to 2000 gauss, and h between 0 and 150 gauss. Proton bunches with concentrations of 10^9 to 10^{10} cm^{-3} are injected through a toroidal section with a magnetic field, and the dependence of the axial and perpendicular velocity components on H and h are determined by probe measurements. [Abstracter's note: The initial ion energy is not explicitly mentioned, but can be calculated from the data as 60 ev]. Maximum increase of perpendicular velocity and reduction of axial velocity, while the total particle energy was conserved, was attained when H = 570 gauss and h/H = 0.17. It is intended to use such periodic magnetic systems for the injection of plasma clusters into magnetic traps, especially into pulsed adiabatic traps for nuclear fusion experiments. Since the observed increase of the perpendicular velocity components is a resonance effect dependent on particle mass, it is thought that a method of cleaning unwanted impurity ions from plasma clusters might be based on this effect. There are 7 figures.

SUBMITTED: February 20, 1961

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KALMYKOV, A.A.; NIKOLAYEV, F.A.

Some nuclear laboratories in England; impressions of a visit.
Atom. energ. 12 no.5:441-443 My '62. (MIRA 15:5)
(Great Britain—Nuclear engineering)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KALMYKOV, A.A.; TERESHIN, V.I.; TRUBCHANINOV, S.A.; SAFRONOV, B.G.

Interaction between plasma clots and a spacially periodical magnetic field. Zhur.tekh.fiz. 32 no.5:579-583 My '62. (MIRA 15:7)

(Plasma (Ionized gases)) (Magnetic fields)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

ANUMYKOV, A. A., TIMOFEYEV, A. D., PANKRAT'YEV, YU. I., TERESHIN, V. I., TRUBCHANINOV, S. A., NOZDRACHEV, M. G., NABOKA, V. A., BAFRONOV, B. G.,

"Plasma Guns Investigation,"

report presented at the 6th Intl. Conf. on Ionization Phenomena in Gases, Paris, France, 8-13 Jul 63

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6

KAIMYKOV, A.A.; TIMOFEYEV, A.D.; PANKRAT'YEV, Yu.I.; TERESHIN, V.I.; VERESHCHAGIN, V.L.; ZLATOPOL'SKIY, L.A.

Method for measuring the energy and mass spectrum of the ion component of a moving plasma. Prib. i tekh. eksp. 8 no.5:142-145 S-O '63. (MIRA 16:12)

1. Fiziko-tekhnicheskiy institut AN UkrSSR.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620130003-6"